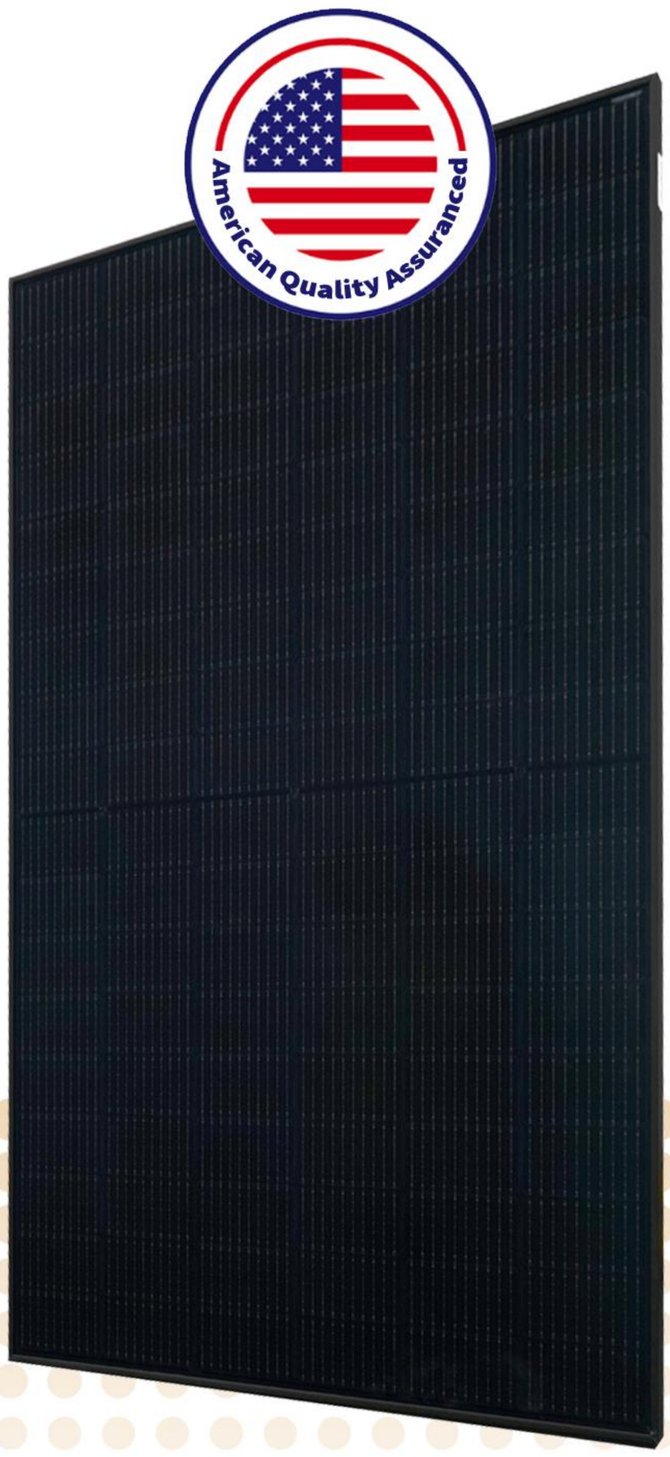
CORTEX™

Cortex P3– 182 mm MONO–PERC MODULE

380-385-390-400W



Outstanding Product Performance

- Better performance under shading effect.
- Excellent cell color control by dedicated cell blackening treatment.
- Thinner wires that appear all black at a distance

Smaller Size, Higher Power

- Small form factor. Generate a huge amount of energy even in limited space.
- Up to 400W, 20.2% module efficiency with high density interconnect technology.
- Multi–busbar technology for better light trapping effect, lower series resistance and improved current collection.
- Reduce installation cost with higher power bin and efficiency.
- Boost performance in warm weather lower temperature coefficient (–0.34%) and operating temperature.

Perfect fitting for residential rooftops

- Designed for compatibility with existing mainstream optimizers, inverters and mounting systems.
- Perfect size and low weight. Easy for handling. Economy for transporting.
- Diverse installation solutions. Flexible for system deployment.

High Reliability

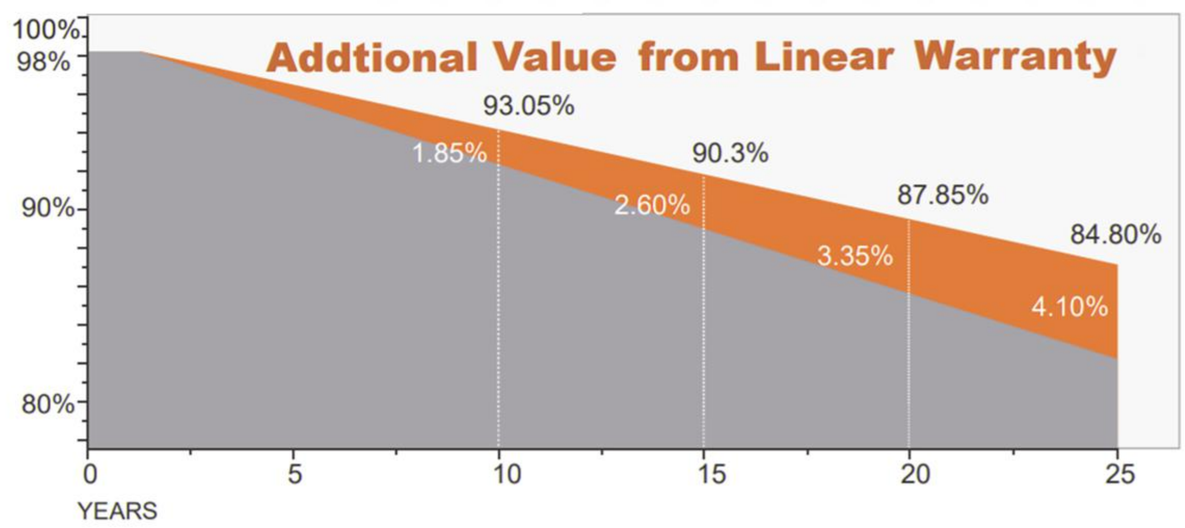
- 15 year product warranty.
- 25 year performance warranty with lowest degradation.
- Minimized micro–cracks with innovative non–destructive cutting technology.
- Ensured PID resistance through cell process and module material control.
- Mechanical performance up to 5400pa.

Comprehensive Products and System Certificates

IEC61215/IEC61730/IEC61701/IEC62716
ISO9001:Quality Management System
ISO14001:Environmental Management System
ISO14064:Greenhouse Grases Emissions Verification
ISO45001:Occupational Health and Safety Management System

RECYCLABLE PACKAGING
EU-28 WEEE COMPLIANT

Warranty



15 YEARS Guarantee on product material and workmanship

25 YEARS linear power output warranty

OMNISPOWER®
POWER THE FUTURE

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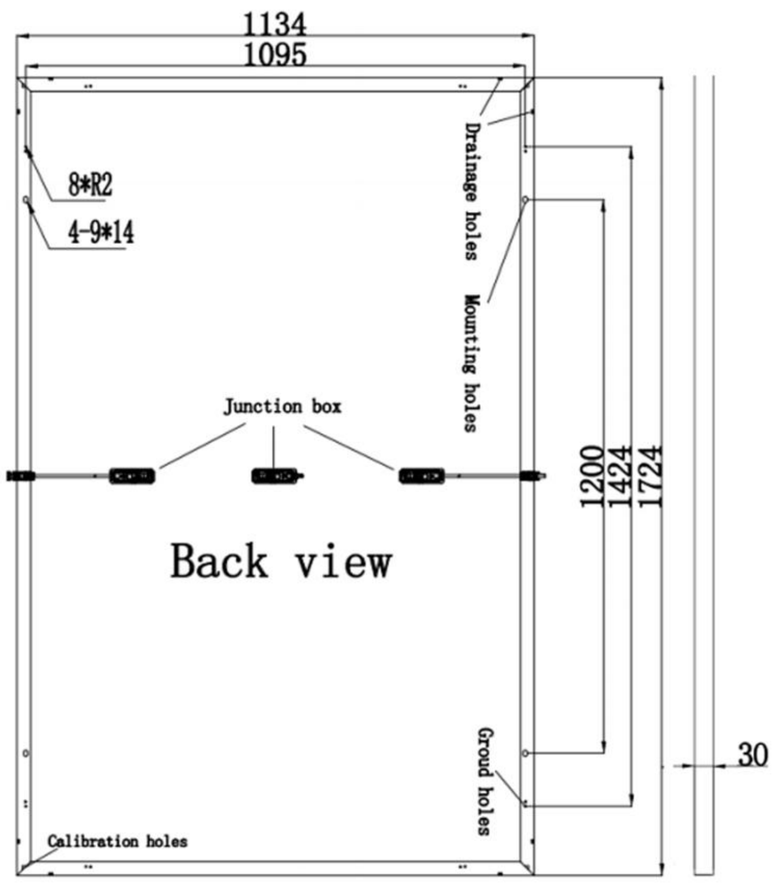
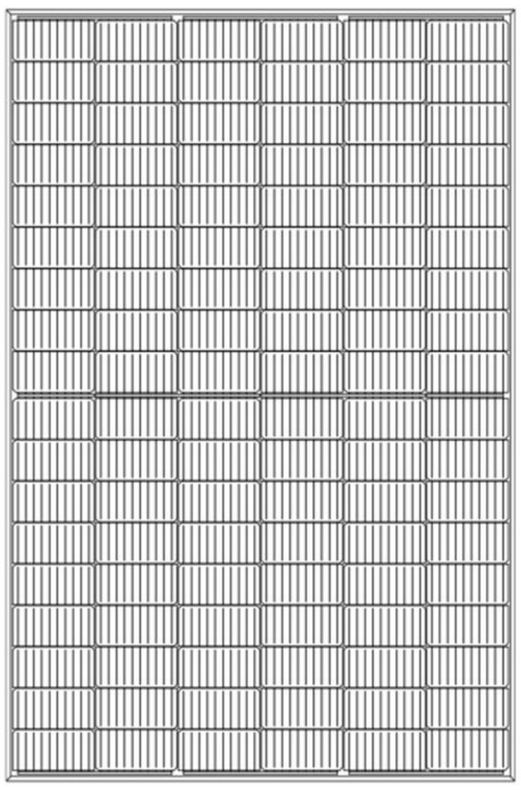
CORTEX™

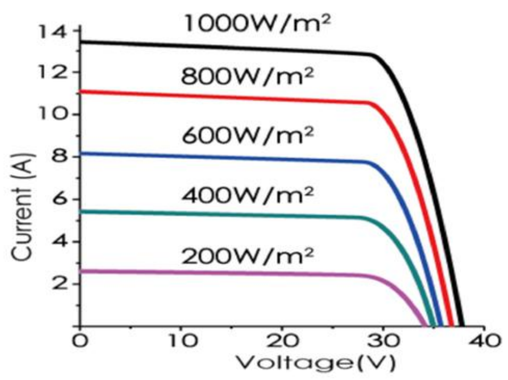
380 - 400W

DIMENSIONS OF PV MODULE(mm)

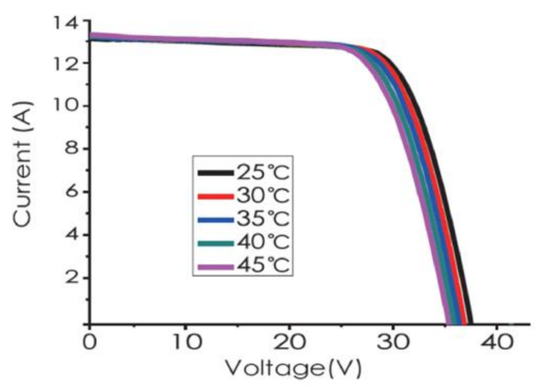




I-V CURVES OF PV MODULE



P-V CURVES OF PV MODULE



ELECTRICAL DATA(STC)

Part Number	OP380M54-P3-B	OP385M54-P3-B	OP390M54-P3-B	OP400M54-P3-B
Peak Power Watts-P_{MAX}(Wp)*	380	385	390	400
Power Output Tolerance- P_{MAX}(W)	0 ~ +5			
Open Circuit Voltage-V_{OC}(V)	36.54	36.94	37.34	37.9
Short Circuit Current-I_{SC}(A)	13.50	13.60	13.70	13.72
Maximum Power Voltage- V_{MPP}(V)	30.42	30.82	31.22	32.00
Maximum Power Curret-I_{MPP}(A)	12.82	12.94	13.06	12.97
Module Efficiency (%)	19.95	20.46	20.97	21.22

STC:Irradiance 1000w/m²,Cell Temperature 25℃,Air Mass AM1.5
*Measuring tolerance:±3%.

ELECTRICAL DATA(NOCT)

MaximunPower-P_{MAX}(Wp)	287	295	302	314
Maximun Power Voltage-V_{MPP}(V)	28.38	28.78	29.18	29.60
Maximum Power Current-I_{MPP}(A)	10.11	10.25	10.35	10.61
Open Circuit Voltage-V_{OC}(V)	34.09	34.49	34.89	35.25
Short Circuit Current-I_{SC}(A)	10.60	10.70	10.80	11.23

NMOT:Irradiance at 800W/m²,Ambient Temperature 20℃,Wind Speed 1m/s.

MECHANICAL DATA

Number of cells(pcs)	108
Size of cell(mm)	182*91
Type of cell	Mono
Size of module(mm)	1724*1134*30
Weight(kg)	20.7
Junction box	IP68
Fire class	Class C
Warranty period	15 years
Cables/connectirs	H1Z2Z2-K 4mm²01C1 / 05-8 / TL-Cable01S / Staubli MC4

*Please refer to regional datasheet for specified connector.

TEMPERATURE RATINGS

NMOT(Nominal Module Operating Temperature)	43℃(±2℃)
Temperature Coefficient of P_{MAX}	-0.34%/℃
Temperature Coefficient of V_{OC}	-0.25%/℃
Temperature Coefficient of I_{SC}	-0.04%/℃

MAXIMUM RATINGS

Operating Temperature	-40~±85℃)
Operating Humidity	5~85
Allowable Hail Load	25mm ice-ball with velocity of 23m/s

(Do not connect Fuse in Combiner Box with two or more strings in parallel connection)

WARRANTY

15 year Product Workmanship Warranty
25 year Power Warranty

(Please refer to product warranty for details)

PACKAGING CONFIGURATION

Modules per box:25 pieces
Modules per 40'container:910 pieces

OMNISPOWER®
POWER THE FUTURE

CAUTION:READ SAFETY AND INSTALLATION INSTRUCTIONS BEFORE USING THE PRODUCT.

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Country of Origin: China or Vietnam